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SPECIAL NOTICE

The abstract sections of the monthly supplements of *Aeronautical Engineering* can be bound separately. Individual abstracts can be located readily by means of the page numbers given at each entry, e.g., p0479 N79-23888. To assist the user in binding Supplements SP-7037 (106) through SP-7037 (117), a title page is included in the back of this Cumulative Index.

**A CUMULATIVE INDEX
TO
AERONAUTICAL ENGINEERING
A Continuing Bibliography**

**This Cumulative Index supersedes the indexes
contained in supplements SP-7037(106) through
SP-7037(117).**

INTRODUCTION

WHAT THIS CUMULATIVE INDEX IS

This publication is a cumulative index to the abstracts contained in NASA SP-7037(106) through NASA SP-7037(117) of *Aeronautical Engineering: A Continuing Bibliography*. NASA SP-7037 and its supplements have been compiled through the cooperative efforts of the American Institute of Aeronautics and Astronautics (AIAA) and the National Aeronautics and Space Administration (NASA). Entries prepared by the two contributing organizations are identified as follows:

1. NASA entries by their *STAR* accession numbers (N79-10000 series).
2. AIAA entries by their *IAA* accession numbers (A79-10000 series).

HOW THIS CUMULATIVE INDEX IS ORGANIZED

This Cumulative Index includes a subject index, a personal author index, a corporate source index, a contract number index, and a report/accession number index.

HOW TO USE THE SUBJECT INDEX

Two types of cross-references appear in the subject index:

1. Use (U) references indicate that the subject term is not "postable," i.e., not a valid term, and the following term or terms are used instead. For example:

AIRCRAFT PROTUBERANCES
U PROTUBERANCES
FLIGHT PERFORMANCE
U FLIGHT CHARACTERISTICS

2. Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

FLOW RESISTANCE
NT AERODYNAMIC DRAG
NT FRICTION DRAG
NT SUPERSONIC DRAG

In addition, a searcher may use the title or title and title extension in the index to narrow further his quest for particular items. This is because subject terms readily include more than one class of document. For example:

AIRLINE OPERATIONS
All-weather operations, including
pilot role, instrument landing
systems and guidance aids.
Airport congestion as constraint on
air travel, considering runway
capacity and adjusted demand.

illustrates a case where two references on different topics are listed under the same subject term.

HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors used in the abstract-section citations in the individual Supplements appear in the index. Differences in transliteration schemes may require multiple searching of the index for variants of an author's name. For example:

EMELIANOV, M. D.
and
YEMELYANOV, M. D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract-section citations in the individual Supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

BOEING CO., SEATTLE, WASH. MILITARY AIRCRAFT SYSTEMS DIV. (Source citation entry)
BOEING CO., SEATTLE, WASH. (Source index entry)

HOW TO USE THE CONTRACT NUMBER INDEX

All contract numbers that are identified in the abstract-section citations in the individual Supplements appear in this index. Changes by agencies in the style in which contract numbers are presented may require multiple searching for variants. For example:

AF 33(615)-71-C-1758
F33615-71-C-1758

HOW TO USE THE REPORT/ACCESSION NUMBER INDEX

All report numbers that have been assigned by the corporate source, monitoring agency or cataloging activity appear in this index. Variations in initial cataloging may result in different report number series. For example:

TP-924
ONERA-TP-924

IDENTIFICATION OF DESIRED SUPPLEMENT

The abstract and descriptive cataloging for any accession number selected from the indexes may be found in the appropriate Supplement. The page-number range of each Supplement appears on the inside front cover of this index. Once the range of page numbers containing the selected accession number is located in the second column, the desired Supplement number will be found in the first column. For example:

Page 331 will be found in Supplement 111.

AVAILABILITY OF DOCUMENTS

Information concerning the availability of documents announced in the *Aeronautical Engineering* supplements is found in the Introduction to the most currently issued monthly supplement.

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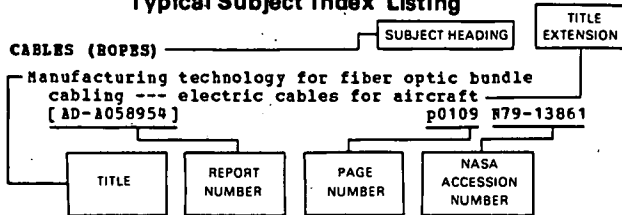
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AERONAUTICAL ENGINEERING / A Continuing Bibliography

JANUARY 1980

1979 Cumulative Index

Typical Subject Index Listing



The title is used to provide a description of the subject matter. When the title is insufficiently descriptive of the document content, a title extension is added, separated from the title by three hyphens. The *STAR* or *IAA* accession number is included in each entry to assist the user in locating the abstract in the abstract section of an individual issue of *Aeronautical Engineering*. If applicable a report number is also included as an aid in identifying the document. The page and accession numbers are located beneath and to the right of the title. Under any one subject heading the accession numbers are arranged in sequence with the *IAA* accession numbers appearing first.

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- Computational optimization and wind tunnel test of transonic wing designs [AIAA PAPER 79-0080] p0200 A79-23526
- Boron/aluminum landing gear for Navy aircraft --- A-7 aircraft nose wheel linkages [AD-A058888] p0101 N79-13028
- The development and implementation of algorithms for an A-7E performance calculator [AD-A061344] p0232 N79-16841
- Software requirements for the A-7E aircraft [AD-A061751] p0304 N79-18974
- AAES/TA-7C control and display interface [AD-A067219] p0495 N79-24992
- AAES laboratory simulator requirements (A-7 aircraft) [AD-A066393] p0500 N79-25041
- Technology trends and maintenance workload requirements for the A-7, F-4, and F-14 aircraft [AD-A070036] p0701 N79-32153

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- Night/Adverse Weather A-10 evaluator program p0464 A79-38479
- Air quality analysis of possible F-15 and A-10 aircraft engine modifications to reduce pollution [AD-A059976] p0165 N79-14107
- A-10 static structural test program [AD-A071782] p0715 N79-33192

A-300 AIRCRAFT

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- Effect of the model vertical position in a slotted wall wind tunnel [AAEP-WT-78-05] p0440 N79-23119
- A comparison of predictions obtained from wind tunnel tests and the results from cruising flight: Airbus and Concorde --- conferences [NASA-TN-75238] p0663 N79-31136

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- Recent advances in radome design p0637 A79-49574

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- Flow field calibration results for the AFDC High

- Enthalpy Ablation Test Facility /HEAT/ p0114 A79-17622
- Laser balancing demonstration on a high-speed flexible rotor [ASME PAPER 79-GT-56] p0391 A79-32351
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- Full-scale engine tests of bulk absorber acoustic inlet treatment [NASA-TN-79079] p0227 N79-16645

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- Water absorption of fluids/oils --- contamination of aircraft engine oils and inhibitors [AD-A065915] p0488 N79-24158

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- Air Force applications of lightweight superconducting machinery --- in airborne power sources p0279 A79-27666

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Structural adhesives and bonding; Proceedings of
the Conference, El Segundo, Calif., March 13-15,
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NT ARROW WINGS

NT BEARINGLESS ROTORS

NT CAMBERED WINGS

NT CARET WINGS

NT CRUCIFORM WINGS

NT DELTA WINGS

NT ELEVATORS (CONTROL SURFACES)

NT ELEVONS

NT EXTERNALLY BLOWN FLAPS

NT FIXED WINGS

NT FLAPS (CONTROL SURFACES)

NT FLEXIBLE WINGS

NT HORIZONTAL TAIL SURFACES

NT INFINITE SPAN WINGS

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NT LOW ASPECT RATIO WINGS

NT OBLIQUE WINGS

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NT RECTANGULAR WINGS

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NT RING WINGS

NT ROTARY WINGS

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U ROTATION

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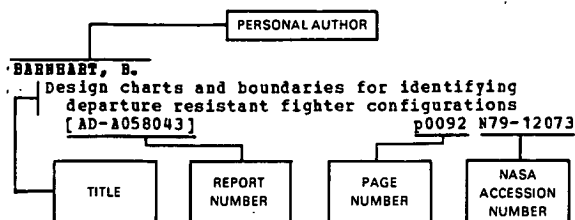
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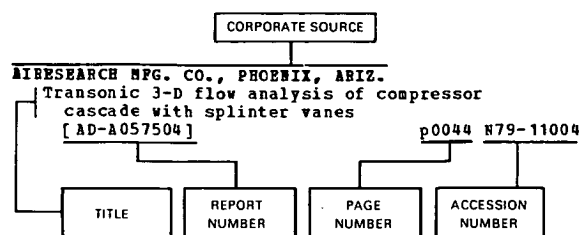
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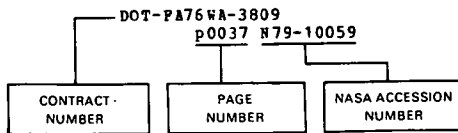
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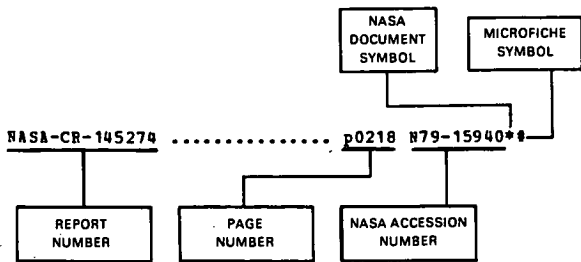
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